

IN THE CLAIMS

Pursuant to 37 CFR §1.121(c), the claim listing, including the text of the claims, will serve to replace all prior versions of the claims, in the application.

Please amend claim 1, as follows:

1 1. (Currently Amended) A secondary battery comprising:
2 an electrode assembly including a positive electrode plate, a negative electrode
3 plate, and a separator interposed between the positive and negative electrode plates;
4 a metallic electrically conducting can, adapted to accommodate both the electrode
5 assembly and an electrolytic solution, the can including a side opening;
6 a cap assembly including a cap plate and an electrode port, the cap plate being
7 coupled to the side opening of the can, the electrode port being coupled to the cap plate
8 via a gasket adapted to insulate the electrode port from the cap plate, the electrode port
9 being connected to one of positive and negative electrode tabs respectively extending
10 from the positive and the negative electrode plates;
11 a selected one of: the cap assembly having at least one aperture in a side portion
12 thereof, and the can having at least one cavity in an external bottom surface; and
13 a lead plate having an upper flat surface and a lower flat surface, the upper flat
14 surface and the lower flat surface having sizes corresponding to the aperture and the
15 cavity,
16 wherein the lead plate is pressfit into a selected one of:
17 the at least one aperture of the cap plate, and
18 the at least one cavity in an external bottom surface of the can, and
19 the lead plate ~~being~~ is tightly attached without welding to the selected one of the at least
20 one aperture of the cap plate and the at least one cavity in an external bottom surface of
21 the can and ~~being~~ is adapted to be connected to a safety device, and
22 wherein one of the upper flat surface and the lower flat surface is disposed in the

23 aperture or the cavity.

1 2. (Original) The secondary battery of claim 1, wherein the cap plate comprises
2 one of aluminum and an aluminum alloy.

1 3. (Original) The secondary battery of claim 1, wherein the lead plate comprises
2 nickel.

1 4. (Original) The secondary battery of claim 1, wherein the lead plate and the
2 safety device are connected via a port member, the port member being resistance welded
3 to the lead plate.

1 5. (Original) The secondary battery of claim 4, wherein the port member
2 comprises nickel.

1 6. (Original) The secondary battery of claim 1, further comprising a protecting
2 case arranged between the electrode assembly and the cap assembly.

1 7. (Previously Presented) A secondary battery comprising:
2 an electrode assembly including a positive electrode plate, a negative electrode
3 plate, and a separator interposed between the positive and negative electrode plates;
4 a metallic electrically conducting can, adapted to accommodate the electrode
5 assembly and an electrolytic solution, the can having at least one cavity in an external
6 bottom surface thereof and having a side opening;
7 a cap assembly adapted to be coupled to the side opening of the can; and
8 a lead plate pressfit into the at least one cavity of the can, the lead plate being
9 tightly attached without welding to the at least one cavity of the can and being connected

10 to a safety device.

1 8. (Original) The secondary battery of claim 7, wherein the can comprises one of
2 aluminum and an aluminum alloy.

1 9. (Original) The secondary battery of claim 7, wherein the lead plate comprises
2 nickel.

1 10. (Original) The secondary battery of claim 7, wherein the lead plate and the
2 safety device are connected via a port member, the port member being resistance welded
3 to the lead plate.

1 11. (Previously Presented) The secondary battery of claim 10, wherein the port
2 member comprises nickel.

1 12. (Original) The secondary battery of claim 7, wherein the cap assembly
2 comprises:

3 a cap plate adapted to be coupled to the side opening of the can; and

4 an electrode port adapted to be coupled to the cap plate via a gasket adapted to
5 insulate the electrode port from the cap plate, the electrode port being connected to one of
6 positive and negative electrode tabs respectively extending from the positive and
7 negative electrode plates.

1 13. (Previously Presented) A secondary battery comprising:

2 an electrode assembly including at least two electrode tabs extending therefrom;

3 an electrically conducting can, adapted to accommodate the electrode assembly,
4 the can including a side opening;

5 a cap assembly including a cap plate and an electrode port, the cap plate being
6 coupled to the side opening of the can and having at least one aperture in a side portion
7 thereof, the electrode port being connected to one of the at least two electrode tabs, and
8 a lead plate pressfit into the at least one aperture of the cap plate, and the lead
9 plate being tightly attached without welding to the at least one aperture of the cap plate
10 and adapted to be connected to a safety device.

1 14. (Original) The secondary battery of claim 13, wherein the cap plate comprises
2 one of aluminum and an aluminum alloy.

1 15. (Original) The secondary battery of claim 13, wherein the lead plate
2 comprises nickel.

1 16. (Original) The secondary battery of claim 13, wherein the lead plate and the
2 safety device are connected via a port member welded to the lead plate.

1 17. (Original) The secondary battery of claim 16, wherein the port member
2 comprises nickel.

1 18. (Original) The secondary battery of claim 13, further comprising a protecting
2 case arranged between the electrode assembly and the cap assembly.

1 19. (Previously Presented) A secondary battery comprising:
2 an electrode assembly;
3 an electrically conducting can, adapted to accommodate the electrode assembly,
4 the can having at least one cavity in an external bottom surface thereof and having a side
5 opening;

6 a cap assembly adapted to be coupled to the side opening of the can; and

7 a lead plate pressfit into the at least one cavity of the can, the lead plate being
8 tightly attached without welding to the selected one of the at least one aperture of the cap
9 plate and the at least one cavity in an external bottom surface of the can and being
10 connected to a safety device.

1 20. (Original) The secondary battery of claim 19, wherein the can comprises one
2 of aluminum and an aluminum alloy.

1 21. (Original) The secondary battery of claim 19, wherein the lead plate
2 comprises nickel.

1 22. (Original) The secondary battery of claim 19, wherein the lead plate and the
2 safety device are connected via a port member welded to the lead plate.

1 23. (Original) The secondary battery of claim 22, wherein the port member
2 comprises nickel.

1 24. (Original) The secondary battery of claim 19, wherein the cap assembly
2 comprises:

3 a cap plate adapted to be coupled to the side opening of the can; and

4 an electrode port adapted to be coupled to the cap plate and connected to one of at
5 least two electrode tabs extending from the electrode assembly.

1 25. (Previously Presented) A method of manufacturing a secondary battery, the
2 method comprising:

3 forming an electrode assembly;

4 forming an electrically conducting can, the can arranged to accommodate the

5 electrode assembly;
6 forming a side opening in the can;
7 forming a cap assembly including a cap plate and an electrode port;
8 coupling the cap plate to the side opening of the can;
9 forming at least one aperture in a side portion of the cap plate;
10 coupling the electrode port to the cap plate;
11 connecting the electrode port to one of at least two electrode tabs extending from
12 the electrode assembly;
13 pressfitting a lead plate into the at least one aperture of the cap plate to tightly
14 attach the lead plate without welding to the at least one aperture of the cap plate; and
15 connecting the lead plate to a safety device.

1 26. (Original) The method of claim 25, further comprising forming the cap plate
2 of one of aluminum and an aluminum alloy.

1 27. (Original) The method of claim 25, further comprising forming the lead plate
2 of nickel.

1 28. (Original) The method of claim 25, further comprising connecting the lead
2 plate to the safety device with a port member welded to the lead plate.

1 29. (Original) The method of claim 28, further comprising forming the port
2 member of nickel.

1 30. (Original) The method of claim 25, further comprising forming a protecting
2 case between the electrode assembly and the cap assembly.

1 31. (Previously Presented) A method of manufacturing a secondary battery, the
2 method comprising:

3 forming an electrode assembly;
4 forming an electrically conducting can, the can being adapted to accommodate the
5 electrode assembly;
6 forming at least one cavity in an external bottom surface of the can;
7 forming a side opening in the can;
8 forming a cap assembly;
9 coupling the cap assembly to the side opening of the can;
10 pressfitting a lead plate into the at least one cavity of the can to tightly attach the
11 lead plate without welding to the at least one cavity of the can; and
12 connecting the lead plate to a safety device.

1 32. (Original) The method of claim 31, further comprising forming the can of one
2 of aluminum and an aluminum alloy.

1 33. (Original) The method of claim 31, further comprising forming the lead plate
2 of nickel.

1 34. (Original) The method of claim 31, further comprising connecting the lead
2 plate to the safety device with a port member welded to the lead plate.

1 35. (Original) The method of claim 34, further comprising forming the port
2 member of nickel.

1 36. (Original) The method of claim 31, further comprising:
2 forming the cap assembly to include a cap plate coupled to the side opening of the

3 can;
4 forming the cap assembly to include an electrode port coupled to the cap plate; and
5 connecting the electrode port to one of at least two electrode tabs extending from
6 the electrode assembly.

Claims 37 and 38. (Canceled)